

Title (en)
GAS DETECTION SENSOR

Title (de)
GASDETEKTIONSSENSOR

Title (fr)
DETECTEUR DE GAZ

Publication
EP 1267156 A1 20021218 (EN)

Application
EP 00931706 A 20000605

Priority
JP 0003658 W 20000605

Abstract (en)
A gas detection sensor of simplified construction that permits precise measurement of the concentration of flammable gas in the detection gas or subject gas and the concentration of oxygen gas in the detection gas containing flammable gases. The gas detection sensor according to the present invention in which the heating of the sensor by the contact catalytic reaction of flammable gas gives off the detection signal of the flammable gas, and which comprises a first detection sensor which includes a diaphragm having a platinum coat on the side with which the flowing detection gas comes in contact and a thermocouple having the one ends of two different kinds of metals placed close to each other and fixed on the reverse side of the diaphragm not coming in contact with the flowing detection gas and which is heated by the contact catalytic reaction of flammable gas, and a second detection sensor which includes a diaphragm having a surface coming in contact with the flowing detection gas and a thermocouple having the one ends of two different kinds of metals placed close to each other and fixed on the reverse side of the diaphragm not coming in contact with the flowing detection gas and which detects the temperature of the flowing detection gas. <IMAGE>

IPC 1-7
G01N 25/32

IPC 8 full level
G01N 25/32 (2006.01); **G01N 27/00** (2006.01); **G01N 27/16** (2006.01); **G01N 33/00** (2006.01)

CPC (source: EP KR)
G01N 25/32 (2013.01 - EP); **G01N 27/16** (2013.01 - KR); **G01N 33/0013** (2013.01 - EP)

Citation (search report)
See references of WO 0194925A1

Designated contracting state (EPC)
CH DE FR GB IT LI NL

DOCDB simple family (publication)
EP 1267156 A1 20021218; CA 2363728 A1 20011205; CN 1160562 C 20040804; CN 1399720 A 20030226; IL 144499 A0 20020523; KR 100425577 B1 20040401; KR 20020034980 A 20020509; WO 0194925 A1 20011213; WO 0194925 A8 20021003

DOCDB simple family (application)
EP 00931706 A 20000605; CA 2363728 A 20000605; CN 00809901 A 20000605; IL 14449900 A 20000605; JP 0003658 W 20000605; KR 20017004842 A 20010418